

AMENDMENTS TO THE CLAIMS

1-8. (Cancelled)

9. (Previously presented) A method for controlling a wireless communication system, including a base station coupled to a cellular telephone network and coupled to a second network via a modem, wherein the base station is assigned a PSTN telephone number, and a mobile station assigned a cellular telephone number of the cellular network; the method comprising;

the mobile station registering with the base station during which the mobile station stores base station identification information and the base station stores mobile station identification information;

the mobile station while in a cellular service mode, recognizing that the mobile station is in close proximity to the base station;

the mobile station selects the base station using the stored base station identification information;

the mobile station upon selecting the base station, couples to the base station, and wirelessly registers with the base station, and automatically de-registers from the cellular network; and

the mobile station automatically switches to the second network via the modem to begin communications over the second network.

10. (Original) A method for controlling a wireless communication system as in claim 8, wherein the communications over the second network are voice communications.

11. (Original) A method for controlling a wireless communication system as in claim 8, wherein a modem link is authorized and established before the communications over the second network begin.

12. (Original) A method for controlling a wireless communication system as in claim 11, wherein the second network responds with a validation return message to authorize and establish communications over the second network.

13. (Original) A method for controlling a wireless communication system as in claim 10, wherein the modem converts analog voice signals to digital signals for voice communications over the second network.

14. (Original) A method for controlling a wireless communication system as in claim 13, wherein the digital voice communications over the second network are compressed signals.

15. (Previously presented) A method for controlling a wireless communication system as in claim 13, wherein the modem digitally Processes signals.

16. (Previously presented) A method for controlling a wireless communication system as in claim 15, wherein the modem digitally processes speech signals.

17. (Previously presented) A method for controlling a wireless communication system as in claim 15, wherein the modem further connects to a modem pool.

18. (Original) A method for controlling a wireless communication system as in claim 16, wherein the modem performs signal processing functions associated with voice detection to differentiate between noise and voice signals.

19. (Previously presented) A method for controlling a wireless communication system, including a mobile station, a base station, and a modem, the method comprising;
wirelessly transmitting over a first network analog voice communications from the mobile station to the base station;

transmitting the analog voice communications from the base station to the modem;
converting the analog voice communications into compressed digital signals in the
modem; and
transmitting the compressed digital signals over a second network via the modem.

20. (Previously presented) A method for controlling a wireless communication system as in claim 19, wherein only registered users may communicate with the base station.

21. (Previously presented) A method for controlling a wireless communication system as in claim 20, wherein the modem digitally Processes signals.

22. (Previously presented) A method for controlling a wireless communication system as in claim 21, wherein the modem digitally processes speech signals.

23. (Previously presented) A method for controlling a wireless communication system, including a base station coupled to a cellular telephone network and coupled to a second network via a modem, wherein the base station is assigned a PSTN telephone number, and a mobile station assigned a cellular telephone number of the cellular network; the method comprising;

the mobile station registering with the base station during which the mobile station stores base station identification information and the base station stores mobile station identification information;

the mobile station while in a cellular service mode, recognizing that the mobile station is in close proximity to the base station;

the mobile station selects the base station using the stored base station identification information;

the mobile station upon selecting the base station, couples to the base station, and wirelessly registers with the base station, and automatically de-registers from the cellular network; and

the mobile station automatically switches to the second network via the modem to begin communications over the second network, wherein the modem includes a digital signal processor and a speech encoder that converts analog voice communications from the mobile station into compressed digital signals to be transmitted over the second network.

24. (Previously presented) A method for controlling a wireless communication system as in claim 23, wherein only registered users may communicate with the base station.

25. (Previously presented) A method for controlling a wireless communication system as in claim 23, wherein the modem further connects to a modem pool.

26. (Previously presented) A method for controlling a wireless communication system as in claim 25, wherein the modem digitally processes speech signals.

27. (Original) A method for controlling a wireless communication system as in claim 23, wherein a modem link is authorized and established before the communications over the second network begin.

28. (Original) A method for controlling a wireless communication system as in claim 26, wherein the second network responds with a validation return message to authorize and establish communications over the second network.